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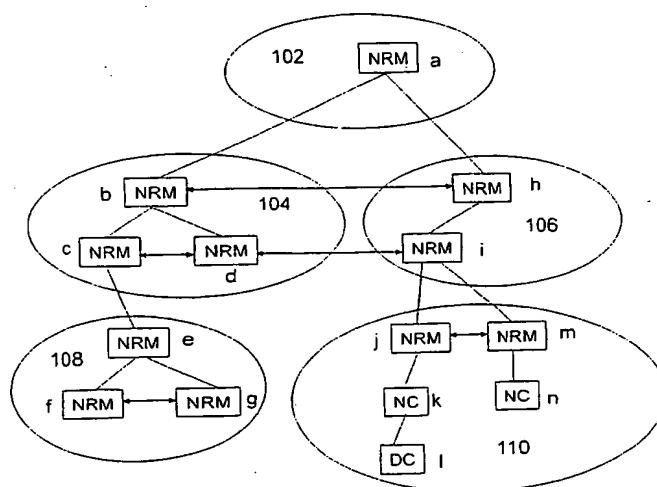
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[Continued on next page]

(54) Title: ARRANGEMENTS AND METHOD FOR HIERARCHICAL RESOURCE MANAGEMENT IN A LAYERED NETWORK ARCHITECTURE



(57) Abstract: The present invention relates to a data network, method and a computer program product, wherein the data network is implemented by a first network level (104) having a first addressing scheme and at least a second network level (108) having a second addressing scheme. Each network level provides connectivity over at least one network domain. The data network is characterised in that a first group of Network Resource Managers, NRMs, (b-d)) is arranged to control the resources of the first network level and a second group of NRMs (e-g) is arranged to control the resources of the second network level. The NRMs of the first group (b-d) and second group (e-g) comprise means for exchanging resource requests by using the first addressing scheme and the NRMs (e-g) of the second group further comprise means for performing an address mapping between the first and second addressing schemes.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 12/56, H04L 29/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1089506 A2 (LUCENT TECHNOLOGIES INC), 4 April 2001 (04.04.2001), column 3, line 25 - column 4, line 25; column 21, line 40 - column 23, line 24, figure 12, abstract	1-35
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A	KEN-ICHI SATO et al: GMPLS-Based Photonic Multilayer Router (Hikari Router) Architecture: An Overview of Traffic Engineering and Signaling Technology. IEEE Communications Magazine, March 2002. See page 96, column 1, line 1 - page 97, column 1, line 15 and abstract	1-35
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 1113628 A2 (NORTEL NETWORKS LTD), 4 July 2001 (04.07.2001), page 2, line 46 - page 3, line 41, abstract</p> <p style="text-align: center;">-- -----</p>	1-35

INTERNATIONAL SEARCH REPORT

Information on patent family members

24/12/2003

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PCT/SE 2003/001767

EP	1089506	A2	04/04/2001	CA	2321513	A	01/04/2001
				CN	1291033	A	11/04/2001
				JP	2001160840	A	12/06/2001
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EP	1113628	A2	04/07/2001	AU	6959400	A	05/07/2001
				CA	2324064	A	28/06/2001
				US	6654363	B	25/11/2003
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